

# Brospec (2001) LP in DRI

**Brospec (2001) LP.**

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# Introduction

- Brospec (2001) LP is a leading manufacturer of abrasion resistant chromium carbide overlay used in the mining industry.
- Brospec has been manufacturing Brospec Fusionbond<sup>®</sup> for over 40 years. It is known throughout the North American mining industry for its quality product.
- We have been a supplier to Mittal Arcelor for over 35 years .
- The first components supplied in 1986 where the top and bottom seal leg installed in module II. The bottom seal leg is still in service.
- The top seal leg was installed at the same time and was replaced after approximately 8 years of service.

# Introduction

- We have since supplied other components to the system.
- Feed Hopper Lower Cone
- Furnace Charging Tube
- Upper Slide Gate Internal Pipe
- Middle Charge Tube
- Furnace Cluster Breaker Cone
- Burdenfeeder Shaft Protection
- Gas Seal Legs
- Top Gas Scrubber Cone
- Bottom Gas Scrubber
- Gas Scrubber Piping
- Screening section
- Chutes Liners for Silo Bin

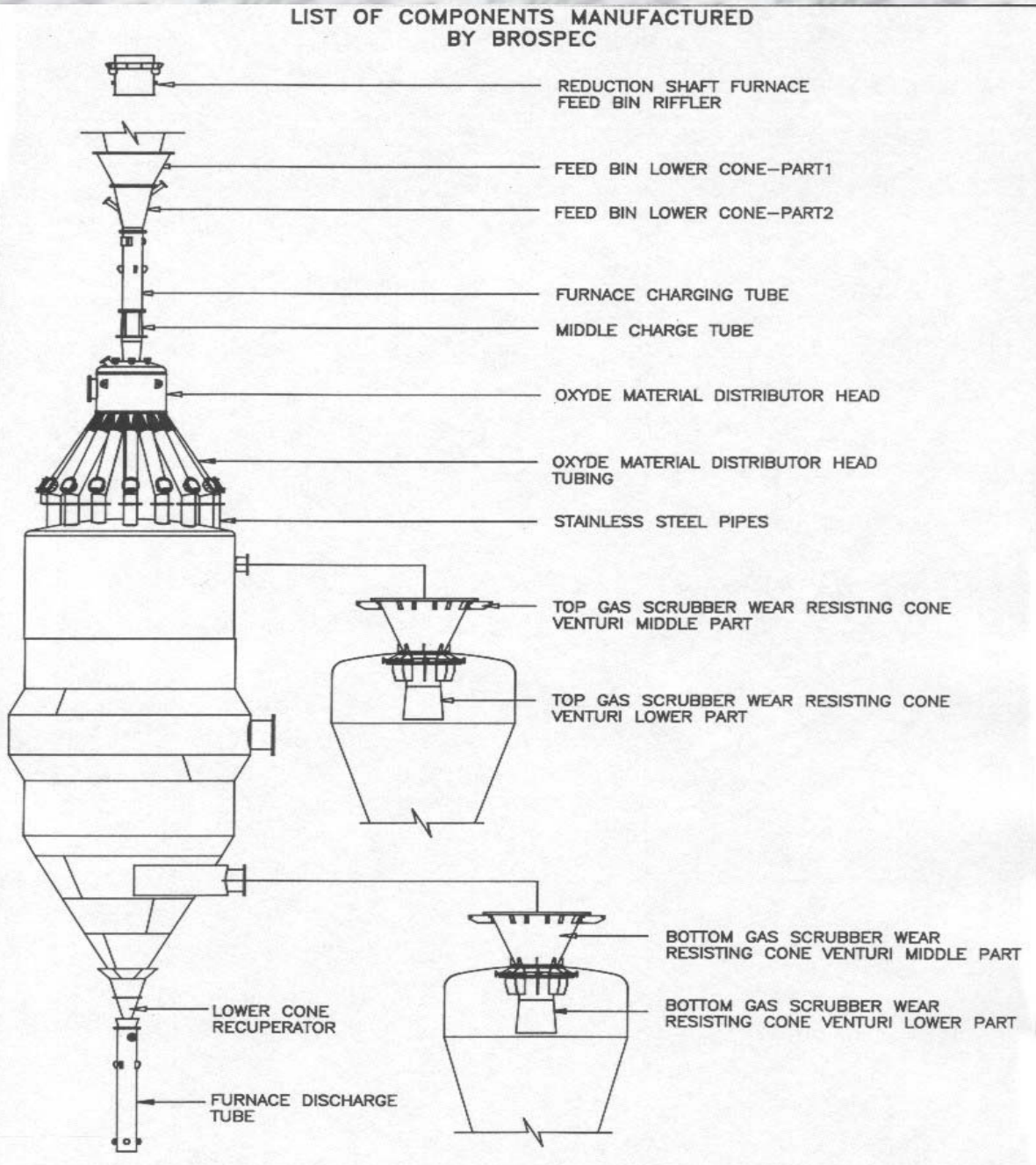
# Introduction

- With the information of wear patterns and life, Brospec has modified the grades and thicknesses of the overlay material in order to optimize the life of the components.
- In 1996 - 1997 Brospec, as a subcontractor, supplied the overlaid materials used on the Midrex system in Louisiana for American Iron Steel
- In 1998 Brospec supplied many replacement components for a system at EZZ Steel. The grades and thicknesses of the materials were chosen, based on the experience with the sytem at Mittal as well as based to our experience with similar applications throughout the mining industry.

# Presentation

- Brospec Fusionbond™ servicing DRI installation for over 35 years.
- Brospec DRI fabricated components have achieved:
  - **Prolonged operating life**
  - **Increase System Efficiency**
  - **Reduce of Maintenance Cost**

# Schematic list of components manufactured by Brospec



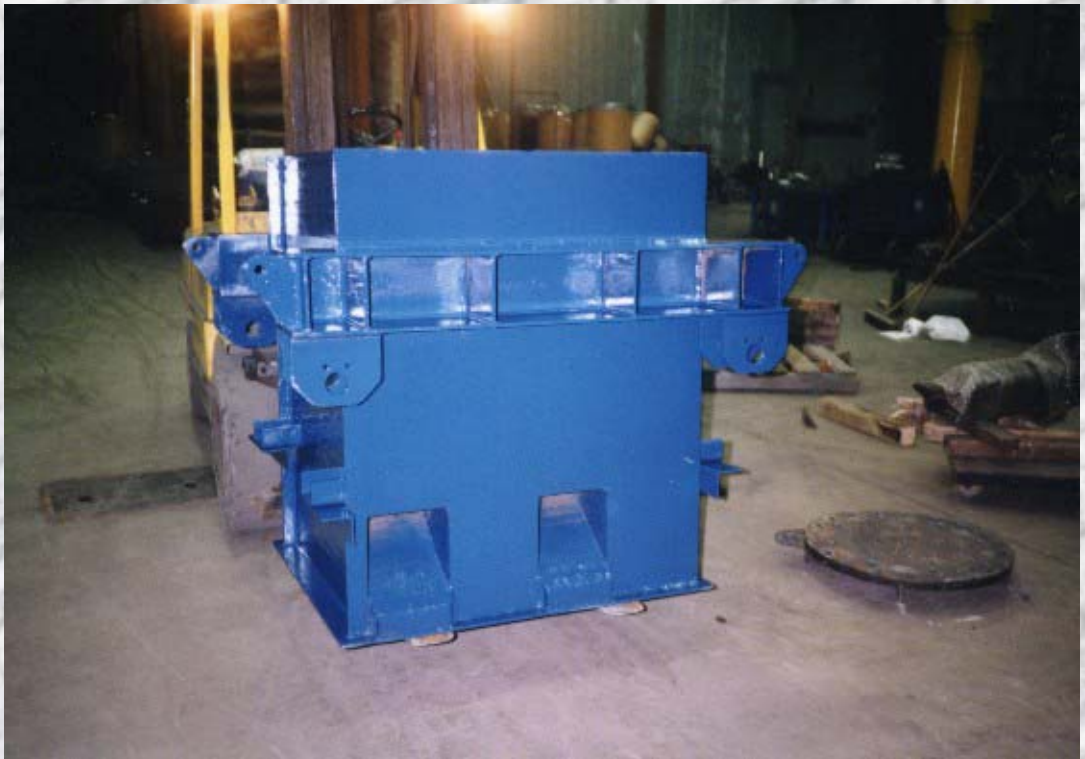
# Applications

- The use of Brospec has significantly increase the service life of high abrasion components such as:
- Feed Bin Riffler
- Feed Hopper Lower Cone
- Furnace Charging Tube
- Upper Slide Gate Internal Pipe
- Middle Charge Tube
- Proportioning Hopper
- Distribution Legs
- Charge Tube Stainless Steel

# Applications

- Furnace Cluster Breaker Cone
- Burdenfeeder Shaft Protection
- Gas Seal Legs
- Top Gas Scrubber Cone
- Bottom Gas Scrubber
- Gas Scrubber Piping
- Screening section
- Chutes Liners Silos

# Feed Bin Riffler



# Feed Hopper Lower Section



# Seal Legs



# Proportioning hopper & Distribution legs



# Cone & Transition Distributions Legs



# Cone & Transition Distributions Legs



# Scrubber Lower Section



# Specifications

- Our Services Include:
- Optimum Fusionbond™
- grades selection
- Fusionbond Research Center
- Historical Data
- Engineering Support in Fusionbond™ grade application

# Pricing Policy

- Pricing is available upon request based on wear application. With drawings, information regarding current life and current materials, Brospec will optimize material selection.
- Brospec will customize a price list for each components.

# DRI systems with Brospec Fusionbond® Wear Material

- Mittal group Canada
- Mittal Carribean
- Comsigua
- American Iron Reduction
- EZZ Steel Alexandria
- PSI Midrex

# Services Available

- Autocad Engineering Service
- Quality Overlay Research Center
- Skilled Personnel
- On Time Scheduling Delivery
- 40 years experience fabricating using Fusionbond®
- chromium carbide overlay

# Contacts Brospec Inc

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